

# ABSTRACT OF JP 05125400

L2 ANSWER 7 OF 9 CA COPYRIGHT 2001 ACS  
 AN 119:162902 CA  
 TI Manufacture of caking-resistant nonionic surfactant granule compositions with high **bulk density** and flowability  
 IN Yamashita, Hiroyuki; Kondo, Hiroyuki; Hatano, Koichi; Nakano, Katsunori; Toyoda, Koji  
 PA Kao Corp, Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C11D017-06  
 ICS C11D011-00  
 CC 46-3 (Surface Active Agents and Detergents)  
 FAN.CNT 1

|      | PATENT NO.     | KIND | DATE     | APPLICATION NO. | DATE     |
|------|----------------|------|----------|-----------------|----------|
| PI   | JP 05125400    | A2   | 19930521 | JP 1992-107460  | 19920427 |
| PRAI | JP 1991-112929 |      | 19910517 |                 |          |
|      | JP 1991-194268 |      | 19910802 |                 |          |

AB The title compns. (bulk d. 0.6-1.2 g/mL) are prepd. from 15-70 parts oil-**absorbent** porous carrier (pore vol. 100-600 cm<sup>3</sup>/100 g, sp. surface area 20-700 m<sup>2</sup>/g, oil absorption >100 mL/100 g) and 30-85 parts **nonionic** surfactants in a stirred vessel by forming a powder adhesion layer on the vessel wall forming a clearance from the stirring blades, granulating such layer into high-d. granules by the stirrer blade, and **coating** the granules with **fine powder**.  
 Granules were prepd. from 65 parts polyoxyethylene dodecyl ether and 35 parts amorphous silica, covered with 2 parts amorphous silica.

ST caking resistant nonionic surfactant granule; silica nonionic surfactant granule

IT Surfactants  
 (nonionic, granules of, manuf. of, caking-resistant)

IT 546-93-0, Magnesium carbonate 7631-86-9, Silica, uses  
 RL: USES (Uses)  
 (in caking-resistant nonionic surfactant manuf.)

IT 9002-92-0, Polyoxyethylene dodecyl ether  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (surfactants, granules, manuf. of caking-resistant)

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